

## ABSTRACT

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A culturing device having one or more culture containers adapted to receive and to discharge a culture medium or nutrient solution is disclosed. The device has a cell culture insert removably received in each of the one or more containers. The device also has at least one supply mechanism for introducing the culture medium into each of the one or more culture containers and for discharging the culture medium from the one or more containers. The device also has at least one level sensor that is arranged to sense a level of the culture medium for the one or more culture containers. The at least one sensor controls the supply mechanism as a function of an output signal from the level sensor that represents the level of the culture medium. The device can carry out a submerged nutrient supply and a basal nutrient supply of cell or tissue cultures in a single culturing device. The device can be adapted to periodically alternate between the submerged and the basal supply condition.

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